

**Residential Solar PV  
Net Metering Policy  
Acknowledgement**

"Net metering" means a system of metering electricity in which Concord Light provides credits on the Customer's bill for electricity generated on the Customer's property which migrates to (i.e. is received by) the Concord Light distribution system when generation is greater than consumption at the Customer location.

This policy is intended for use at residential properties only: specifically, owner occupied, single family/duplex homes. Concord Light will offer net metering to its customers who generate electricity on the Customer's side of the meter provided that the generating capacity of the customer's facility does not exceed 167 kW AC.

Concord Light will assume that the solar PV capacity in kW (AC) is the smaller of the following:

- $((\text{nominal power output per inverter}) \times (\text{number of inverters}/1,000\text{W}/\text{kW}))$
- $((\text{number of solar panels}) \times (\text{max power/panel (in kW DC under Standard Test Conditions)}) \times (\text{CEC inverter efficiency}/1,000\text{W}/\text{kW})).$

Installations are subject to review by Concord Light's engineering division to ensure that the amount of electricity projected to migrate to the distribution system does not exceed the capacity of the transformer serving the Customer, or adversely impact CMLP's distribution system in any other way.

When the solar PV system wiring is installed in such a way that any solar electricity generated that is not used on the Customer's property at a given moment migrates to Concord Light's distribution system, Concord Light will replace the Customer's existing meter with a net meter. The net meter will record any solar electricity that migrates to Concord Light's distribution system because it is not needed on the property at a given moment. A net meter will also record the amount of conventional electricity delivered to the customer by Concord Light, just as the Customer's existing meter has always done.

Each month, any solar electricity (in kilowatt-hours) that migrates through the Customer's net meter to Concord Light's distribution system will be subtracted from the electricity (in kilowatt-hours) that the Customer purchases from Concord Light at the Residential Service Rate. The Customer will be billed for the net amount of electricity at the applicable rate for Residential Service, to the extent that the solar electricity that migrates to Concord Light's distribution system does not exceed the Customer's purchases from Concord Light.

To the extent that the solar electricity that migrates through the Customer's net meter to Concord Light's distribution system exceeds electricity purchases from Concord Light during the month, Concord Light will credit the Customer for the excess at the price that Concord Light

pays New England's Independent System Operator for electrical energy on the Spot Market. The "9-4 Spot Market" price is defined as the average Day Ahead Price during the hours between 9am and 4pm for the month the migration occurs.

The 9-4 Spot Market price will fluctuate based on market conditions. In 2016, the average 9-4 Spot Market price was about \$0.03 / kilowatt-hour. In 2017, we expect the average 9-4 Spot Market price applicable to Concord to remain near this rate. Based on the recent and projected spot market prices, the 9-4 Spot Market price is expected to be substantially less than the R-1 Residential Service rate that Concord Light charges for delivering electricity to the Customer. In 2017, the R-1 Residential Service Rate will range from \$0.14431 to \$0.18685 / kWh, depending on the amount of electricity delivered to the Customer by Concord Light.

If the Customer has controlled electric water heating and low overall electricity consumption, the financial savings due to solar electricity production may be diminished. Please contact Concord Light.

The Customer acknowledges that if the solar PV system is sized so that it produces more electricity than is needed on the property during a given month, the excess electricity will be credited at the 9-4 Spot Market price, which is substantially lower than the R-1 Residential Service Rate.

All net metering customers will also be assessed a monthly Distribution Charge on their electric bill, which is based upon the size of their solar PV system:

Installed Generation Capacity:		Price per month
Equal or Greater Than	and Less Than	
2 kW (AC)	4 kW (AC)	\$3.60 / month
4 kW (AC)	7 kW (AC)	\$6.60 / month
7 kW (AC)	10 kW (AC)	\$10.20 / month
10 kW (AC)	13 kW (AC)	\$13.80 / month
13 kW (AC)	16 kW (AC)	\$17.40 / month
16 kW (AC)	19 kW (AC)	\$21.00 / month
19 kW (AC)	22 kW (AC)	\$24.60 / month
22 kW (AC)	25 kW (AC)	\$28.20 / month
25 kW (AC)	28 kW (AC)	\$31.80 / month
28 kW (AC)	31 kW (AC)	\$35.40 / month
31 kW (AC)	34 kW (AC)	\$39.00 / month
34 kW (AC)	37 kW (AC)	\$42.60 / month
37 kW (AC)	40 kW (AC)	\$46.20 / month
40 kW (AC)	46 kW (AC)	\$53.40 / month
46 kW (AC)	58 kW (AC)	\$67.80 / month
58 kW (AC)	82 kW (AC)	\$96.60 / month
82 kW (AC)	130 kW (AC)	\$154.20 / month
130 kW (AC)	167 kW (AC)	\$198.60 / month

Twenty percent of each Concord Light customer bill is used to maintain the local electricity distribution system in Town and to cover Concord Light's operating costs. The Distribution Charge ensures that the costs of maintaining the local electrical distribution system and running Concord Light are shared fairly among all of Concord Light's customers, including those who have reduced their financial contribution towards maintaining these services by replacing some of the electricity they had purchased from Concord Light with electricity generated by their solar PV system. Customers with solar PV systems continue to receive all of the services provided by the electricity distribution system in Town and by Concord Light. Customers' adoption of solar does not reduce Concord Light's costs for maintaining local infrastructure and providing services. The Customer acknowledges that the Distribution Charge is a condition of receiving net metering credits from Concord Light. This Solar PV Net Metering Policy Acknowledgement references Concord Light's R-6 Rate: Residential Service – Net Metering with Banking Rate, available on Concord Light's website at <http://www.concordma.gov/DocumentCenter/Home/View/1205>. The Net Metering Rate, including the Distribution Charges, is subject to change.

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Customer Signature

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Customer Name

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Customer Address

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Date